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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/586,098	0/586,098 03/20/2007 Mikhail Laksin		S9025.0219	1736
32172 DICKSTEIN SI	7590 04/01/200 HAPIRO LLP	EXAMINER		
	OF THE AMERICAS	SHAH, MANISH S		
NEW YORK, N	NY 10036-2714		ART UNIT	PAPER NUMBER
			2853	
			MAIL DATE	DELIVERY MODE
			04/01/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application N	cation No. Applicant(s)					
			10/586,098		LAKSIN ET AL.			
	Office Action Summary		Examiner		Art Unit			
			Manish S. Sha		2853			
Period fo	The MAILING DATE of this commur r Reply	nication appe	ars on the co	ver sheet with the c	orrespondence ad	idress		
WHIC - Exten after: - If NO - Failur Any re	DRTENED STATUTORY PERIOD F HEVER IS LONGER, FROM THE IN sions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this coming period for reply is specified above, the maximum is e to reply within the set or extended period for reply apply received by the Office later than three months digitally patent term adjustment. See 37 CFR 1.704(b).	MAILING DATES of 37 CFR 1.136 munication. tatutory period will y will, by statute, care	TE OF THIS (a). In no event, h I apply and will expected the application	COMMUNICATION owever, may a reply be tin ire SIX (6) MONTHS from to become ABANDONE	N. nely filed the mailing date of this of (35 U.S.C. § 133).	•		
Status								
1) 又	Responsive to communication(s) file	ed on <i>06 .lan</i>	nuary 2009					
•	Responsive to communication(s) filed on <u>06 January 2009</u> . This action is FINAL . 2b)⊠ This action is non-final.							
—		<i>,</i> —			secution as to the	e merits is		
-	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
	on of Claims		,					
· -		annlication						
,	Claim(s) <u>1-20</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.							
	5) Claim(s) is/are allowed. S) Claim(s) <u>1-20</u> is/are rejected.							
· ·	Claim(s) is/are objected to.							
-	Claim(s) is/are objected to: Claim(s) are subject to restri	ction and/or a	alaction requ	irement				
		ction and/or c	election requ	rement.				
Applicati	on Papers							
9) 🔲 -	Γhe specification is objected to by th	ne Examiner.						
10) 🔲 -	The drawing(s) filed on is/are	: a) <u></u> accep	oted or b)☐ (objected to by the B	Examiner.			
	Applicant may not request that any obje	ection to the dr	rawing(s) be he	eld in abeyance. See	e 37 CFR 1.85(a).			
	Replacement drawing sheet(s) including	g the correctio	n is required if	the drawing(s) is ob	ected to. See 37 C	FR 1.121(d).		
11) 🔲 -	The oath or declaration is objected t	o by the Exa	miner. Note t	he attached Office	Action or form P	ΓΟ-152.		
Priority u	nder 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some coll None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
2) Notice Notice (3) Inform	(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (Ination Disclosure Statement(s) (PTO/SB/08) · No(s)/Mail Date	PTO-948)	4) 5) 6)	Interview Summary Paper No(s)/Mail Da Notice of Informal P Other:	nte			

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DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

1. Claims 1-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ylitalo et al. (# US 2003/0083396) in view of Subbraraman et al. (# US 5710195).

Ylitalo et al. discloses:

- A printing ink comprising: (i) polymerizable material ([0085]); (ii) an energy curable monomer, oligomer, or mixture thereof ([0090]-[0093]); and (iii) a vehicle ([0079]-[0081]).
- The energy curable monomer, oligomer, or mixture thereof, is an ethylenically unsaturated monomer, oligomer, or mixture thereof ([0091]-[0093]), wherein the energy curable monomer, oligomer, or mixture thereof, is in an amount of about 1% to 50% by weight of the printing ink ([0093]).
- The vehicle comprises water, ethanol, n-propanol, iso-propanol, n-butanol, sec-butanol, tert-butanol, iso-butanol, n-pentanol, or ethyl acetate ([0081]).
- The ink further comprising a photoinitiator, wherein the photoinitiator is in an amount between about 0.1% and about 20% (5 to 15%) by weight of the printing ink ([0094]-[0099]).

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The photoinitiator is selected from the group consisting of benzophenone
 ([0095]).

- A method of printing comprising: (i) printing a substrate with the printing ink (ii) drying the printed ink; and (iii) exposing the printed ink to an actinic radiation, wherein actinic radiation is IR light or electron beam ([0109]-[0113]).
- The steps (ii) and (iii) are performed sequentially or steps (ii) and (iii) are performed simultaneously ([0112]).

Ylitalo et al. differ from the claim of the present invention is that the ink comprising the solvent-soluble resin, which is selected from nitrocellulose, acrylate, methacrylate, polyester, polyamide, copolymer of styrene and maleic anhydride, polyurethane and epoxy. The solvent-soluble resin is in a range between about 0.1% to about 40% by weight of the printing ink.

Subbaraman et al. teaches that to get printed image with high opacity, with high contrast and good adhesion, ink composition comprises the solvent-soluble resin (see Abstract), wherein resin is selected from styrene resin, and acrylate type resin (see Abstract; column: 3, line: 55-67; column: 4, line: 1-20; see Examples), and nitrocellulose (see Examples; column: 5, line: 5-15). They also teaches that the solvent-soluble resin is in a range between about 0.1% to about 40% by weight of the printing ink (column: 3, line: 55-65; see Examples).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the ink composition of Ylitalo et al. by the aforementioned teaching

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of Subbaraman et al. in order to have a printed image with high opacity, with high contrast and good adhesion.

Response to Arguments

2. Applicant's arguments with respect to claims 1-20 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Manish S. Shah whose telephone number is (571) 272-2152. The examiner can normally be reached on 8:00am-4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen D. Meier can be reached on (571) 272-2149. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Manish S. Shah/ Primary Examiner Art Unit 2853

/MSS/